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RUSH #22 9-24-02
P.2



1600

RAW SEQUENCE LISTING

DATE: 09/17/2002

PATENT APPLICATION: US/09/466,035

TIME: 13:48:28

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09172002\I466035.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: SALLBERG, MATTI

7 MILICH, DAVID R.

8 LEE, WILLIAM T.L.

10 (ii) TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
11 INTRACELLULAR DISEASES

13 (iii) NUMBER OF SEQUENCES: 86

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Robins & Pasternak LLP

17 (B) STREET: 545 Middlefield Road, Suite 180

18 (C) CITY: Menlo Park

19 (D) STATE: California

20 (E) COUNTRY: U.S.

21 (F) ZIP: 94025

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/466,035

C--> 31 (B) FILING DATE: 17-Dec-1999

32 (C) CLASSIFICATION:

34 (viii) ATTORNEY/AGENT INFORMATION:

35 (A) NAME: Pasternak, Dahna S.

36 (B) REGISTRATION NUMBER: 41,411

37 (C) REFERENCE/DOCKET NUMBER: 2300-1231.01

39 (ix) TELECOMMUNICATION INFORMATION:

40 (A) TELEPHONE: 650-325-7812

41 (B) TELEFAX: 650-325-7823

42 (C) TELEX:

45 (2) INFORMATION FOR SEQ ID NO: 1:

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 35 base pairs

49 (B) TYPE: nucleic acid

50 (C) STRANDEDNESS: single

51 (D) TOPOLOGY: linear

56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

58 CTCGAGCTCG AGGCACCAGC ACCATGCAAC TTTT

35

60 (2) INFORMATION FOR SEQ ID NO: 2:

62 (i) SEQUENCE CHARACTERISTICS:

63 (A) LENGTH: 29 base pairs

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64          (B) TYPE: nucleic acid
65          (C) STRANDEDNESS: single
66          (D) TOPOLOGY: linear
71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73 CTACTAGATC CCTAGATGCT GGATCTTCC                29
75 (2) INFORMATION FOR SEQ ID NO: 3:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 29 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
86      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
88 GGAAGATCCA GCATCTAGGG ATCTAGTAG                29
90 (2) INFORMATION FOR SEQ ID NO: 4:
92      (i) SEQUENCE CHARACTERISTICS:
93          (A) LENGTH: 26 base pairs
94          (B) TYPE: nucleic acid
95          (C) STRANDEDNESS: single
96          (D) TOPOLOGY: linear
101     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
103 GGGCGATATC AAGCTTATCG ATACCG                26
105 (2) INFORMATION FOR SEQ ID NO: 5:
107     (i) SEQUENCE CHARACTERISTICS:
108         (A) LENGTH: 19 base pairs
109         (B) TYPE: nucleic acid
110         (C) STRANDEDNESS: single
111         (D) TOPOLOGY: linear
116     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
118 AATACGACTC ACTATAGGG                19
120 (2) INFORMATION FOR SEQ ID NO: 6:
122     (i) SEQUENCE CHARACTERISTICS:
123         (A) LENGTH: 17 base pairs
124         (B) TYPE: nucleic acid
125         (C) STRANDEDNESS: single
126         (D) TOPOLOGY: linear
131     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
133 ATTAACCCCTC ACTAAAG                17
135 (2) INFORMATION FOR SEQ ID NO: 7:
137     (i) SEQUENCE CHARACTERISTICS:
138         (A) LENGTH: 19 base pairs
139         (B) TYPE: nucleic acid
140         (C) STRANDEDNESS: single
141         (D) TOPOLOGY: linear
146     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
148 AATACGACTC ACTATAGGG                19
150 (2) INFORMATION FOR SEQ ID NO: 8:
152     (i) SEQUENCE CHARACTERISTICS:
153         (A) LENGTH: 34 base pairs
154         (B) TYPE: nucleic acid

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155         (C) STRANDEDNESS: single
156         (D) TOPOLOGY: linear
161     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
163 CCTCGAGCTC GAGCTTGGGT GGCTTTGGGG CATG
165 (2) INFORMATION FOR SEQ ID NO: 9:
167     (i) SEQUENCE CHARACTERISTICS:
168         (A) LENGTH: 17 base pairs
169         (B) TYPE: nucleic acid
170         (C) STRANDEDNESS: single
171         (D) TOPOLOGY: linear
176     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
178 ATTACCCCTC ACTAAAG
180 (2) INFORMATION FOR SEQ ID NO: 10:
182     (i) SEQUENCE CHARACTERISTICS:
183         (A) LENGTH: 20 base pairs
184         (B) TYPE: nucleic acid
185         (C) STRANDEDNESS: single
186         (D) TOPOLOGY: linear
191     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
193 GTAGACCGTG CATCATGAGC
195 (2) INFORMATION FOR SEQ ID NO: 11:
197     (i) SEQUENCE CHARACTERISTICS:
198         (A) LENGTH: 20 base pairs
199         (B) TYPE: nucleic acid
200         (C) STRANDEDNESS: single
201         (D) TOPOLOGY: linear
205     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
207 ATAGCGGAAC AGAGAGCAGC
209 (2) INFORMATION FOR SEQ ID NO: 12:
211     (i) SEQUENCE CHARACTERISTICS:
212         (A) LENGTH: 55 base pairs
213         (B) TYPE: nucleic acid
214         (C) STRANDEDNESS: single
215         (D) TOPOLOGY: linear
219     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
221 CTCGAGCTCG AGCCACCATG AGCACAAATC CTAAACCTCA AAGAAAAACC AAACG
223 (2) INFORMATION FOR SEQ ID NO: 13:
225     (i) SEQUENCE CHARACTERISTICS:
226         (A) LENGTH: 62 base pairs
227         (B) TYPE: nucleic acid
228         (C) STRANDEDNESS: single
229         (D) TOPOLOGY: linear
234     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
236 GCAAGCTTAA GCTTCTATCA AGCGGAAGCT GGGATGGTCA AACAAGACAG CAAAGCTAAG
238 AG
240 (2) INFORMATION FOR SEQ ID NO: 14:
242     (i) SEQUENCE CHARACTERISTICS:
243         (A) LENGTH: 55 base pairs
244         (B) TYPE: nucleic acid

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245         (C) STRANDEDNESS: single
246         (D) TOPOLOGY: linear
251     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
253 AAGCTTAAGC TTCCACCATG AGCACAAATC CTAAACCTCA AAGAAAAACC AAACG      55
255 (2) INFORMATION FOR SEQ ID NO: 15:
257     (i) SEQUENCE CHARACTERISTICS:
258         (A) LENGTH: 62 base pairs
259         (B) TYPE: nucleic acid
260         (C) STRANDEDNESS: single
261         (D) TOPOLOGY: linear
266     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
268 GCCTCGAGCT CGAGCTATCA AGAGGAAGCT GGGATGGTCA AACAAGACAG CAAAGCTAAG      60
270 AG      62
272 (2) INFORMATION FOR SEQ ID NO: 16:
274     (i) SEQUENCE CHARACTERISTICS:
275         (A) LENGTH: 19 base pairs
276         (B) TYPE: nucleic acid
277         (C) STRANDEDNESS: single
278         (D) TOPOLOGY: linear
283     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
285 GTGCATGCAT GTTAGTGCG      19
287 (2) INFORMATION FOR SEQ ID NO: 17:
289     (i) SEQUENCE CHARACTERISTICS:
290         (A) LENGTH: 20 base pairs
291         (B) TYPE: nucleic acid
292         (C) STRANDEDNESS: single
293         (D) TOPOLOGY: linear
298     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
300 CGTGGTGTAT GCGTTGATGG      20
302 (2) INFORMATION FOR SEQ ID NO: 18:
304     (i) SEQUENCE CHARACTERISTICS:
305         (A) LENGTH: 59 base pairs
306         (B) TYPE: nucleic acid
307         (C) STRANDEDNESS: single
308         (D) TOPOLOGY: linear
313     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
315 CCTCGAGCTC GAGCCACCAT GGGGAAGGAG ATACTTCTAG GACCGGCCGA TAGTTTTGG      59
317 (2) INFORMATION FOR SEQ ID NO: 19:
319     (i) SEQUENCE CHARACTERISTICS:
320         (A) LENGTH: 60 base pairs
321         (B) TYPE: nucleic acid
322         (C) STRANDEDNESS: single
323         (D) TOPOLOGY: linear
328     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
330 GCAAGCTTAA GCTTCTATCA GCGTTGGCAT GACAGGAAAG GGAGTCCCGG TAACCGCGGC      60
333 (2) INFORMATION FOR SEQ ID NO: 20:
335     (i) SEQUENCE CHARACTERISTICS:
336         (A) LENGTH: 21 base pairs
337         (B) TYPE: nucleic acid

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338         (C) STRANDEDNESS: single
339         (D) TOPOLOGY: linear
344     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
346 ATAAATAGAA GGCCTGATAT G                                21
348 (2) INFORMATION FOR SEQ ID NO: 21:
350     (i) SEQUENCE CHARACTERISTICS:
351         (A) LENGTH: 35 base pairs
352         (B) TYPE: nucleic acid
353         (C) STRANDEDNESS: single
354         (D) TOPOLOGY: linear
359     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
361 GCAAGCTTAC AATGTACAGG ATGCAACTCC TGTCT                    35
363 (2) INFORMATION FOR SEQ ID NO: 22:
365     (i) SEQUENCE CHARACTERISTICS:
366         (A) LENGTH: 35 base pairs
367         (B) TYPE: nucleic acid
368         (C) STRANDEDNESS: single
369         (D) TOPOLOGY: linear
374     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
376 GACTCGAGTT ATCAAGTCAG TGTTGAGATG ATGCT                    35
378 (2) INFORMATION FOR SEQ ID NO: 23:
380     (i) SEQUENCE CHARACTERISTICS:
381         (A) LENGTH: 35 base pairs
382         (B) TYPE: nucleic acid
383         (C) STRANDEDNESS: single
384         (D) TOPOLOGY: linear
389     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
391 GCCTCGAGAC AATGTACAGG ATGCAACTCC TGTCT                    35
393 (2) INFORMATION FOR SEQ ID NO: 24:
395     (i) SEQUENCE CHARACTERISTICS:
396         (A) LENGTH: 35 base pairs
397         (B) TYPE: nucleic acid
398         (C) STRANDEDNESS: single
399         (D) TOPOLOGY: linear
404     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
406 GAGGGCCCTT ATCAAGTCAG TGTTGAGATG ATGCT                    35
408 (2) INFORMATION FOR SEQ ID NO: 25:
410     (i) SEQUENCE CHARACTERISTICS:
411         (A) LENGTH: 53 base pairs
412         (B) TYPE: nucleic acid
413         (C) STRANDEDNESS: single
414         (D) TOPOLOGY: linear
419     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
421 CGAAGCTTAA GCTTGCCATG GGCCACACAC GGAGGCAGGG AACATCACCA TCC 53
423 (2) INFORMATION FOR SEQ ID NO: 26:
425     (i) SEQUENCE CHARACTERISTICS:
426         (A) LENGTH: 52 base pairs
427         (B) TYPE: nucleic acid
428         (C) STRANDEDNESS: single

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VERIFICATION SUMMARY

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DATE: 09/17/2002

TIME: 13:48:29

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09172002\I466035.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:942 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]